

Corporate Presentation

October 2023

A LEADING Gene Therapy BIOTECHNOLOGY COMPANY GENSIGHT-BIOLOGICS.COM

2023-NPM-O-001 / October 2023 – Non-Confidential

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Investment Case – Last Mile to LUMEVOQ® Approval



Seasoned Executive Team



Bernard Gilly *Chief Executive Officer*

PIXIUM VISION (Since 2011) FOVEA PHARMA (2005-2009) SOFINNOVA PARTNERS (2000-2005) TRANSGENE (1992-2000)

Ph.D. in biology and bio-economics



Thomas Gidoin Chief Financial Officer

DBV TECHNOLOGIES (2012-2015) IPSEN (2008-2011) ERNST & YOUNG (2007-2008)



Scott Jeffers *Chief Technical Officer*

REDPIN THERAPEUTICS (2021-2022) UNIQURE (2019-2021) SELECTA BIOSCIENCES (2018-2019) BRAMMER BIO (2015-2018) Ph.D. in virology

Magali Taiel Chief Medical Officer

ProQR THERAPEUTICS (2016-2018) ELI LILLY (2004-2016) PFIZER (2001-2004) SERVIER (1999-2001) M.D., Board-certified ophthalmologist



Philippe Motté SVP, Regulatory & Quality

GENFIT (2020-2022) MEDDAY (2019-2020) ABBVIE (2013-2018) IPSEN (2004-2013) ROCHE (1998-2004) GSK (1991-1998) SANOFI (1989-1991)



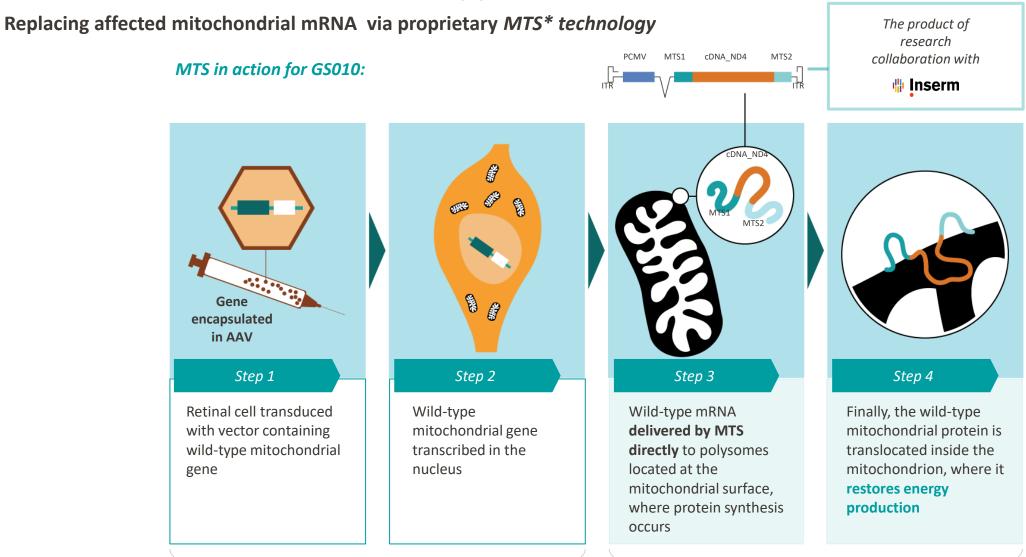
Pipeline: solid and advanced product portfolio in ophthalmic Gene Therapy





LUMEVOQ[®] in LHON-ND4

- 3 Phase III completed; additional Phase III to be initiated in Q2 2024
- New European regulatory submission planned in Leber Hereditary Optic Neuropathy



LUMEVOQ[®] introduces Gene Therapy solution for mitochondrial diseases

7 October 2023 - Non-Confidential

Gene Therapy

MTS*

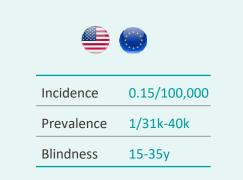


*MTS = mitochondrial targeting sequence

ND4 LHON: blinding bilateral mitochondrial disease

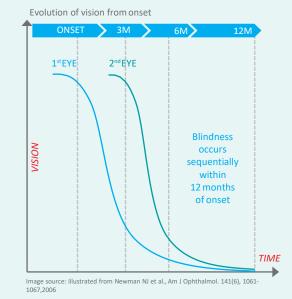
Devastating impact

 Major cause of blindness in young adults



Causal mutation is important

ND4: the most severe mutation with poor visual prognosis



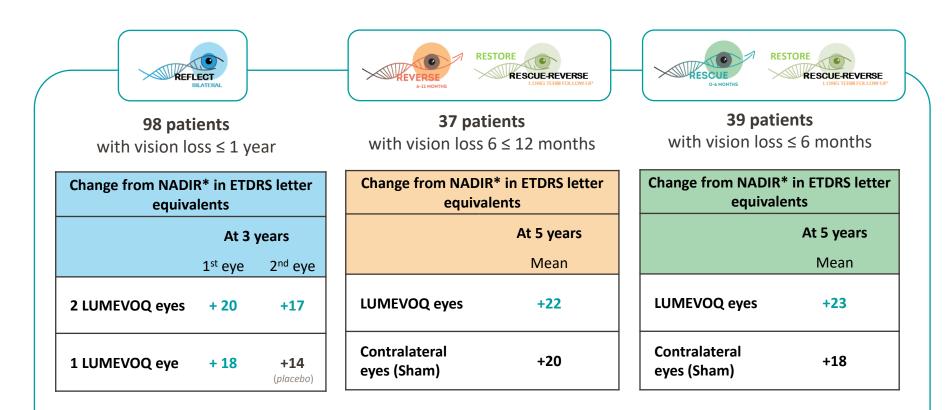
Acute, rapidly progressing and irreversible

"The evolution of natural history eyes shows an absence of recovery"

Valerio Carelli et al. Indirect Comparison of Lenadogene Nolparvovec Gene Therapy Versus Natural History in Patients with Leber Hereditary Optic Neuropathy Carrying the m.11778G>A MT-ND4 Mutation. Ophthalmol Ther. https://doi.org/10.1007/s40123-022-00611-x

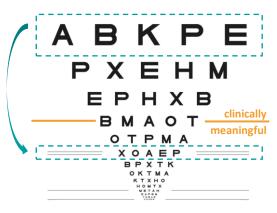


Clinically meaningful and persistent visual function improvement across 3 Phase III studies





3+ lines of visual acuity improvement vs Nadir is clinically meaningful



Clinically meaningful improvement on Quality-of-Life parameters

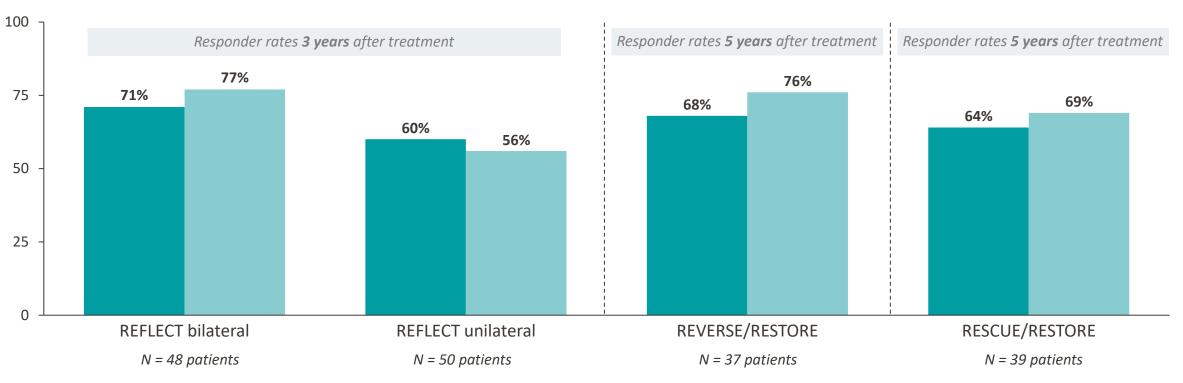
* NADIR defined as the worst BCVA from baseline to time point of interest (5 years for REVERSE and RESCUE, 3 years for REFLECT). Mean change from nadir: last observation for REVERSE/RESTORE and RESCUE/RESTORE (Database lock RESTORE: Jul 4, 2022, completed studies); LOCF imputation for REFLECT (data cut-off Nov 28, 2022, study ongoing). REVERSE: NCT02652780; RESCUE: NCT02652767; RESTORE: NCT03406104; REFLECT: NCT03293524.

SOURCE: GenSight data on file.



9 October 2023 - Non-Confidential

Meaningful and sustained visual function improvement for the <u>majority</u> of patients



Patient Responder Rates* Across LUMEVOQ[®] Phase III trials (%)

*Definition of "responder"

At least -0.3 LogMAR (+15 letters) improvement from nadir Clinically relevant recovery (CRR)** from nadir

Results at last observation for REFLECT (data cut-off Nov 28, 2022, study on-going)

Results at last observation for REVERSE/RESTORE and RESCUE/RESTORE (Database lock RESTORE: Jul 4, 2022, completed studies)

Notes: **CRR: on-chart BCVA gain of at least 10 ETDRS letters, or conversion from off-chart to on-chart BCVA. Patient response: best outcome observed in either eye. REVERSE: NCT02652780; RESCUE: NCT02652767; RESTORE: NCT03406104; REFLECT: NCT03293524.



Indirect comparison to assess LUMEVOQ[®] treatment effect



Contralateral effect eliminated the **control group** formed by the set of eyes treated with sham/placebo injection →Indirect comparison of Lumevoq data versus an **external** control group to assess efficacy of the gene therapy

Treated Group 174 ND4 LHON patients / 152 eyes

3 Phase III studies with long term follow-up¹

- REVERSE/RESCUE/RESTORE: 76 patients
- REFLECT: 98 patients
- Sham and placebo eyes included in the treated group, in line with the contralateral effect

Untreated Group (External Control) 208 patients / 408 eyes

11 Natural History studies²

Composed of patients with same demographics as treated group

- \circ *ND4* mutation, age ≥15 years old
- $\,\circ\,$ BCVA adjusted on time from vision loss
- Individual Patients data

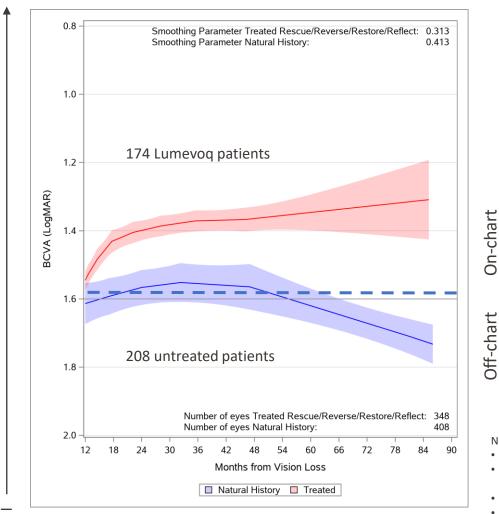
 enabling robust indirect comparison methodology

¹ REVERSE: NCT02652780; RESCUE: NCT02652767; RESTORE: NCT03406104; REFLECT: NCT03293524
 ² Eleven NH studies: Yu-Wai-Man 2021, Lam 2014, Yang 2016, Romero 2014, Zhou 2010, Qu 2009, Qu 2007, Sadun 2004, Hotta 1995, Nakamura 1993, Newman 1991.



Visual improvement after LUMEVOQ® treatment contrasts sharply with natural history

Clinically significant improvement of visual acuity persistent over time for Lumevog[®] efficacy pool versus Natural History



BCVA : best corrected visual acuity. SOURCE: GenSight data on file.

Evidence of efficacy drawn from three Phase III trials –
 unprecedented for a rare disease drug



REVERSE: NCT02652780; RESCUE: NCT02652767; RESTORE: NCT03406104; REFLECT: NCT03293524

- Sustained improvement: Evolution of visual function statistically better than in historical cohort and with clinical relevance
- The magnitude of the difference of effect in LUMEVOQ®treated patients compared to natural history patients is unlikely to be solely attributed to residual biases related to the indirect comparison methodology. The effect observed in LUMEVOQ®treated patients could not be explained by spontaneous improvement.

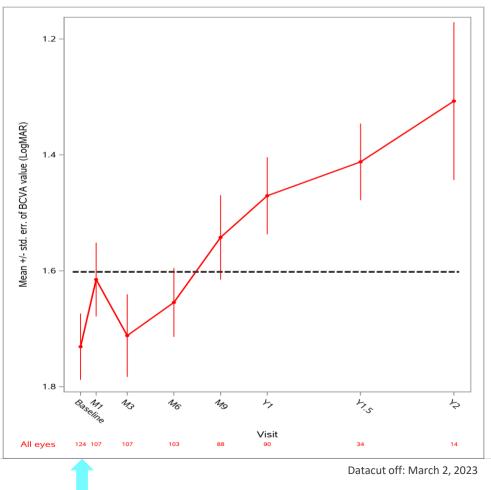
Models used individual ND4 patient data.

Notes:

- LOESS regression (solid lines) with 95% CI around the fitted curves (shaded areas) of BCVA values up to 86 months (values >86 months were assigned to the 86-month timepoint [reverse LOCF]).
- Smoothing parameter: 0.313 for treated eyes and 0.413 for NH eyes.
- Treated patients received a single unilateral or bilateral injection of Lumevoq® between 0 and M12.
- Curves start at M12 as nearly all eyes (96.8%) had been treated at M12.



Prospective data from early access programs (EAP) confirm results of LUMEVOQ[®] trials



Evolution of mean visual acuity over time (n=63)

Treated patients under EAP (n=63) Results at last observation

Last Observation = time post- treatment (in months)	Mean (SD): 13.37 (5.94) Median: 12.16
Mean change in visual acuity (vs. nadir)	-0.43 LogMAR = +21.5 letters ETDRS
% of eyes with on-chart vision	63.5%
Clinically relevant recovery (CRR) from nadir at eye level (%)	52.4%

SD: Standard Deviation

LUMEVOQ[®] treatment Mean (SD): 11.30 (9.66) months post Vision Loss

SOURCE: NANOS 2023 – Abstract - Use of Lenadogene Nolparvovec Gene Therapy for Leber Hereditary Optic Neuropathy in Early Access Programs. Catherine Vignal-Clermont et al.



Favorable safety and tolerability profile

• No study discontinuations related to treatment or study procedure¹

• Excellent systemic tolerance, related to the limited biodissemination²

• Mostly mild intraocular inflammation³, which was responsive to conventional treatment⁴, mostly corticosteroid eye drops alone

REVERSE and RESCUE: No prevention of intraocular inflammation: no requirement for oral corticosteroids

REFLECT: Per protocol, for prevention of intraocular inflammation: Oral corticosteroids: 40 mg for 2 days before administration of the gene therapy, 40 mg for the first week after administration, 30 mg for the second week, 20 mg for the third week, and 10 mg for the fourth week.

• Comparable favourable safety profile for unilateral and bilateral administration

Notes:

- 1. No study discontinuation due to ocular adverse events (AEs); no ocular serious AEs (SAEs) in treated eyes (only 1 ocular SAE in a sham eye: retinal tear, unlikely related to treatment/procedure)
- 2. Negligible in the blood, not detected in the urine and limited and of short duration in the tears
- 3. The intraocular inflammation was considered likely to be related to the drug and occurred in the anterior chamber and the vitreous.

SOURCE: Safety of Lenadogene Nolparvovec Gene Therapy Over 5 Years in 189 Patients With Leber Hereditary Optic Neuropathy. Catherine Vignal-Clermont et al. AJO 2022. <u>https://doi.org/10.1016/j.ajo.2022.11.026</u> REVERSE: NCT02652780; RESCUE: NCT02652767; RESTORE: NCT03406104; REFLECT: NCT03293524.



Regulatory path forward for LUMEVOQ®



- Defining the next steps for a new MAA
- Scientific advice received and further interactions planned



Interactions (scientific advice) ongoing to explore a UK-MA regulatory path



• Phase 3 trial design discussions ongoing

ansm

- Supply for Early Access program "Autorisation d'Accès Compassionnel/Précoce" or AAC/AAP (former ATU) granted by ANSM expected to restart by Q1 2024
 - "ATU Nominative or ATUn" named patient Temporary Authorization for Use for LUMEVOQ® first authorized by ANSM to CHNO of the *Quinze-Vingts* in Paris in December 2019



GS030

Second product candidate targeting photoreceptor degenerative diseases: - Retinitis Pigmentosa (RP) - Age-Related Macular Degeneration (AMD)

Treating the 2 main degenerative diseases of photoreceptors that lead to blindness

Retinitis Pigmentosa (RP)



- Blinding genetic disease
- Mutations in over 100 different genes
- Photoreceptor degeneration leads to slow & irreversible progression to blindness, usually at age 40-45
- 15-20,000 new patients each year in the US and EU

Geographic Atrophy (GA) in AMD (Age-Related Macular Degeneration)

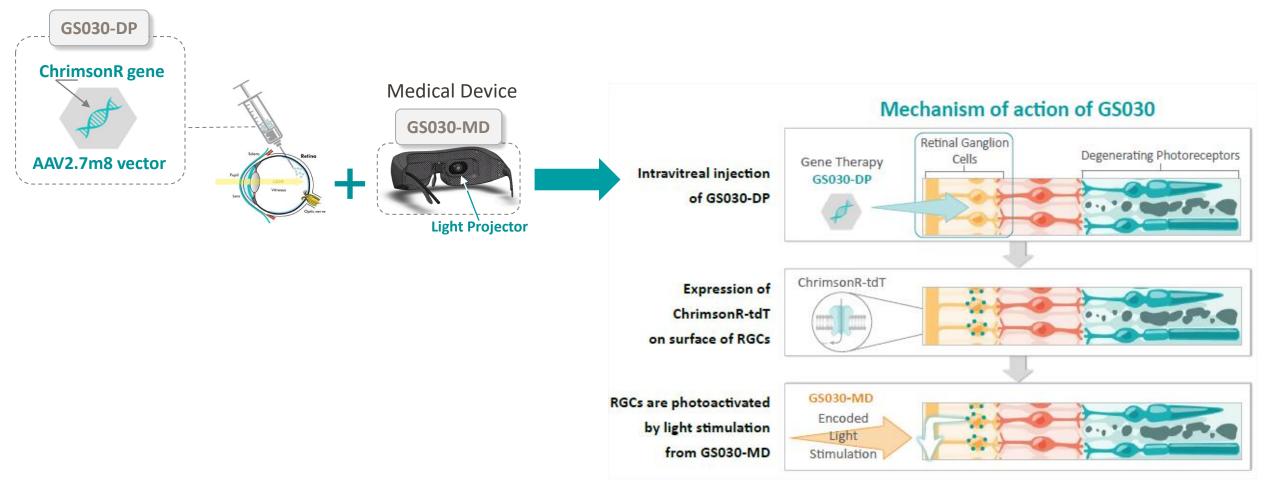


- Early (dry-form) AMD evolves with age into late AMD, one of whose forms is GA
- Dry-AMD affects 350-400,000 new patients a year
- Prevalence of GA increases with age, from 3.5% among 75-year-olds to 22% among those over 90
- Late AMD patients with GA account for 10-20% of blind patients in their age group



GS030 Optogenetic Therapy : Combining Gene Therapy and Medical Device

Drug Product



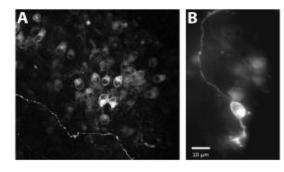
> Restore light sensitivity to diseased retina, independently of causative mutation



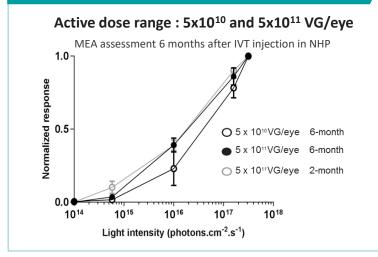
GS030 leads to functional vision restoration in monkey and rats

Localization of light-sensitive protein in NHP retina

Expression of ChrR-tdT in midget cells of monkey perifovea In vivo in NHP assessment 6 months after IVT injection

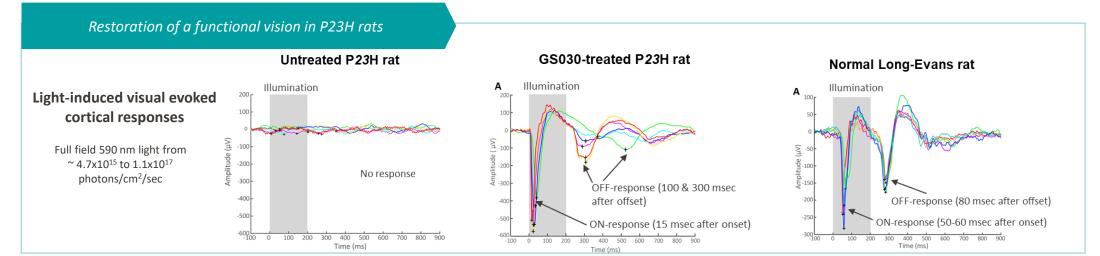


Dose-ranging response to firing relationship in NHP



Recent publication

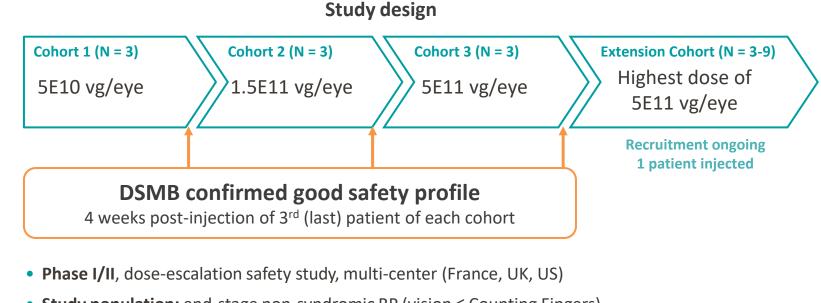
Optogenetic therapy: high spatiotemporal resolution and pattern discrimination compatible with vision restoration in nonhuman primates. Gauvain G. et al. **Communications Biology, Feb. 2021** https://www.nature.com/articles/s42003-020-01594-w.



19 October 2023 - Non-Confidential

PIONEER Phase I/II clinical trial: In late-stage Retinitis Pigmentosa





- Study population: end-stage non-syndromic RP (vision ≤ Counting Fingers)
- Single intra-vitreal injection in the worst affected eye
- Decision to increase the dose taken by a DSMB
- Primary analysis: Safety at 1 year
- Follow-up of 5 years

Dr Elise Boulanger-Scemama
Dr Isabelle AudoCHNO Les Quinze VingtsFranceDr Joseph MartelUPMC Eye CenterUSADr Simona Degli EspostiMoorfields Eye Hospital NHS Foundation TrustUKDr João Pedro MarquesCORC (Coimbra Ophthalmology Reading Center)Portugal



Extension Cohort recruiting with highest dose 5E11 vg/eye without any modification after DSMB#3 recommendation

PIONEER Phase I/II clinical trial: A favorable safety and tolerability profile

• No study discontinuations related to treatment or study procedure

• Excellent systemic tolerance, related to the limited biodissemination

- Mostly mild intraocular inflammation, which was responsive to conventional treatment, mostly corticosteroid eye drops alone
 - No increased severity at high dose

Per protocol, for prevention of intraocular inflammation: Oral corticosteroids: 0.5 mg/kg for 1 week before administration of the gene therapy, 1 mg/kg for the first week after administration, 0.5 mg/kg for the second week, 0.25 mg/kg for the third week, and 0.125 mg/kg for the fourth week.

Light stimulating googles well-tolerated

Notes:

1. The intraocular inflammation was considered likely to be related to the gene therapy and occurred in the anterior chamber and the vitreous.

SOURCE: GenSight data on file; Sahel JA et al, (PO332) Optogenetics in the Clinic: Safety and Efficacy Updates on the Phase Clinical Trial PIONEER, abstract presented at AAO 2022



PIONEER Phase I/II clinical trial: Encouraging signs of efficacy in the highest dose cohort

Efficacy signal at one year

- Released in Feb 2023, when the patients from the highest dose cohort have reached 1-year post gene therapy treatment
- Encouraging signals of efficacy at one year post treatment:
 - Some patients had their vision improved from being barely able to perceive light before treatment to being able to locate and count objects at one year post treatment
 - Best results at the highest dose



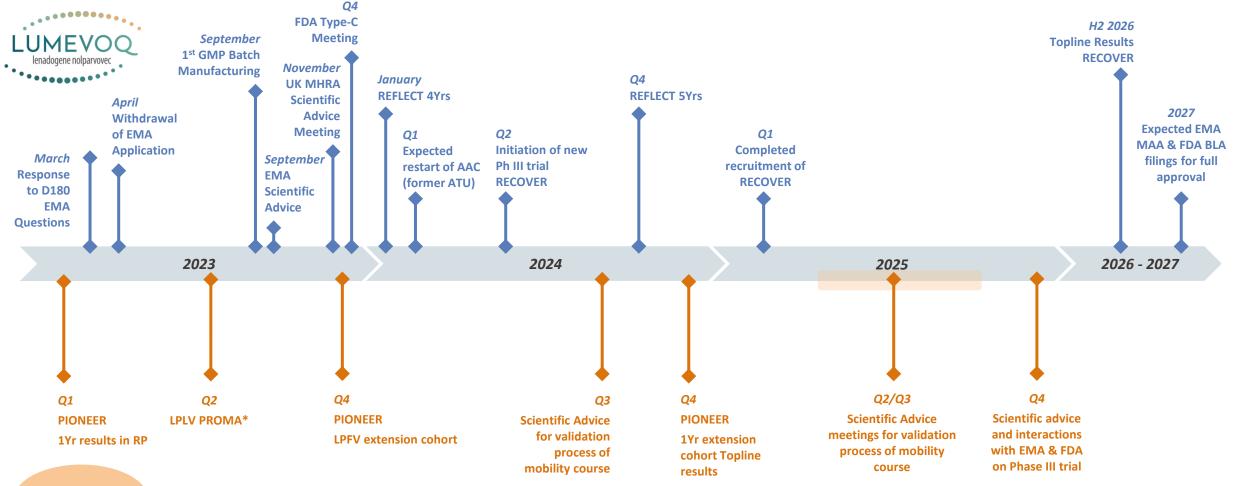
Results at one year released in Feb 2023

GenSight Biologics Announces 1 Year Safety data and Efficacy signals from PIONEER Phase I/II Clinical Trial of GS030, an Optogenetic Treatment Candidate for Retinitis Pigmentosa



Corporate & Finance

Rich upcoming news flow with numerous inflection points



GS030

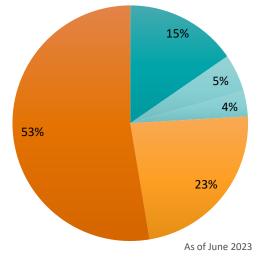
*Development of mobility course, started in 2021; PROMA study: *PROtocole de Mobilité Adapté pour des sujets Déficients Visuels Avancés*: Study for validation of mobility course. Supported by GenSight for use PROMA mobility course as primary endpoint in Phase III study



GenSight Biologics in numbers

Key financial information

	Company Overview	Analy	vst Coverage
Market Cap* :	€ 33m		
Cash Position : (June 30, 2023)	€ 1.0m + €10m (financing announced on Aug 3)	CHARDAN	Daniil Gataulin (US)
Outstanding Shares:	46.3m	Bryan, Garnier & Co	Alex Cogut (FR)
Latest Equity Raised : (March 2021)	€ 30m	oddo Bhf	Damien Choplain (FR)
Equity raised to date	€ 197m	Kepler Cheuvreux	Justine Telliez (FR)
IPO Date	July 13, 2016		David Saymaaya (at)
*As of October 2, 2023		Degroof Petercam	David Seynnaeve (BE)
	Shareholder structure	BioMed Impact	Lionel Labourdette (FR)



Sofinnova	
Bpifrance	Corporate calendar
Management & Employees	2023 3Q Cash Position
Other - Institutional	2023 4Q Cash Position

Other - Retail

orporate calendar	Date
023 3Q Cash Position	October 26, 2023
023 4Q Cash Position	January 25, 2024



GenSight Biologics: Take Away

- Late-stage biotech with **revolutionary solutions** fulfilling the promise of **gene therapy** and **optogenetics**
- Seasoned management team and solid investor base to back up the focused portfolio
- LUMEVOQ[®] for Leber Hereditary Optic Neuropathy
 - Significant and sustained visual function improvement for the majority of patients, contrasting with absence of recovery in natural history
 - CMC challenges successfully remediated
 - Drive to align with regulatory authorities' expectations, including endorsement for overall design of new Phase III trial from European authorities
- GS030 as mutation-agnostic, optogenetic treatment for Retinitis Pigmentosa
 - Efficacy signals in ongoing Phase I/II trial
 - Potential application to other diseases that damage photoreceptors
- End of October 2023 runway, to be extended to December 2023 with the pending drawdown of August €10m Bridge 2nd Tranche (€4m). GenSight will seek additional equity funding in Q4 2023 to extend its cash runway into 2024.

